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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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William Ho Chang

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IPSOLON LLP
111 SW COLUMBIA
SUITE 710
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EXAMINER

BHATIA, AJAY M

ART UNIT

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2145

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/016,223	Applicant(s) CHANG ET AL.	
	Examiner AJAY BHATIA	Art Unit 2145	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-9,11-33,35-41,43-67,69-78 and 80-96 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-9,11-33,35-41,43-67,69-78 and 80-96 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Arguments

Applicant's arguments, see pages 13-15, filed 10/03/2007, with respect to the rejection(s) of claim(s) 1, 3-9, 11-33, 35-41, 43-67, 69-78 and 80-96 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Yamamoto et al in view of Nykanen. Applicant's amendment of wireless mobile devices overcomes the previously cited prior art.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: applicant is required to define a "Computer readable medium".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 3-9, 11-33, 35-41, 43-67, 69-78 and 80-96 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto et al. (U.S. Patent 6,553,431 referred to as Yamamoto) in view of Nykanen et al. (U.S. Patent 6,285,889)

For claim 1, Yamamoto fails to teach, the communication channel including a radio frequency wireless communication channel

Nykanen teaches, the communication channel including a radio frequency wireless communication channel (Nykanen, Col. 6 lines 9-50, radio)

Limitation taught by both Yamamoto and Nykanen,
a data output method for rendering at one or more output devices data content accessed from a wireless mobile information apparatus, comprising:
establishing a communication channel between the wireless mobile information apparatus and the one or more output devices, at the wireless mobile information apparatus; (Nykanen, Col. 5 lines 36-52, outputting) and (Yamamoto, Col. 8 lines 13-27) receiving at the wireless mobile information apparatus over the communication channel one or more attributes corresponding to the one or more output devices; (Nykanen, Col. 8 lines 4-20, format) and (Yamamoto, Col. 10 lines 12-25)
selecting at the wireless mobile information apparatus the one or more output devices or rendering the data content based at least in part on the one or more attributes; (Yamamoto, Col. 10 lines 12-25) (Nykanen , Col. 5, lines 53-67, selecting printer) and delivering the data content to the one or more selected output devices for rendering. (Nykanen , Col. 5, lines 53-67, selecting printer) and (Yamamoto, Col. 10 lines 12-25 and Col. 2 lines 54-60)

Yamamoto and Nykanen, are both in the field of printing documents.

Yamamoto and Nykanen are compatible

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Yamamoto and Nykanen because Nykanen provides for the added improvement of being able to use printers while traveling. (Nykanen, Col. 2 lines 10-14)

For claim 3, Yamamoto-Nykanen teaches, the method of claim 1 in which the data content resides in the wireless mobile information apparatus. (Yamamoto, Col. 10 lines 12-25) and (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio) The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 3.

For claim 4, Yamamoto-Nykanen teaches, the method of claim 1 further including obtaining the data content from a data source distinct from the wireless mobile information apparatus. (Yamamoto, Col. 12 lines 35-49) and (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio) The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 4.

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For claim 5, Yamamoto-Nykanen teaches, the method of claim 1 further comprising obtaining authentication information from the wireless mobile information apparatus and authenticating permission for the wireless mobile information apparatus to access the one or more output devices. (Yamamoto, Col. 27 lines 33-43, Col. 28 lines 34-44, and Col. 28 line 57 to Col. 29 line 18) and (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio) The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 5.

For claim 6, Yamamoto-Nykanen teaches, the method of claim 1 further including obtaining from the wireless mobile information apparatus payment information to administer payment for the output service that is selected. (Yamamoto, Col. 24 lines 41-44) and (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio) The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 13.

For claim 7, Yamamoto-Nykanen teaches, the method of claim 1 further including the wireless mobile information apparatus discovering the one or more output devices to be available to render the data content. (Yamamoto, Col. 24 line 53 to Col. 25 line 15) and (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio) The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 7.

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For claim 8, Yamamoto-Nykanen teaches, the method of 7 in which discovering the one or more output devices includes the wireless mobile information apparatus broadcasting an output service request and awaiting one or more responses from the one or more output devices. (Yamamoto, Col. 24 line 53 to Col. 25 line 15) and (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio) The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 8.

For claim 9, Yamamoto-Nykanen teaches, the method of claim 7 in which discovering the one or more output devices includes the one or more output devices broadcasting information about the output services they provide and awaiting to be contacted by the mobile information apparatus. (Yamamoto, Col. 24 line 53 to Col. 25 line 15)

For claim 11, Yamamoto-Nykanen teaches, the method of claim 7 in which the discovering of one or more output devices involves determining if the one or more output devices satisfy one or more output service requirements. (Yamamoto, Co. 12 lines 17-35)

For claim 12, Yamamoto-Nykanen teaches, the method of claim 11 in which the one or more output service requirements include one or more of price, quality of service, and availability. (Yamamoto, Co. 12 lines 17-35)

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For claim 13, Yamamoto-Nykanen teaches, the method of claim 7 in which the wireless mobile information apparatus discovers the one or more output devices with wireless communication. (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio)

The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 13.

For claim 14, Yamamoto-Nykanen teaches, the method of claim 1 in which the attributes associated with the one or more output devices include information characterizing the one or more output devices. (Yamamoto, Co. 12 lines 17-35)

For claim 15, Yamamoto-Nykanen teaches, the method of claim 14 in which the information characterizing the one or more output devices includes one or more of a make identifier, a model identifier, an output device type identifier, an output data format identifier, and an output device identifier. (Yamamoto, Co. 12 lines 17-35 and Col. 11 lines 12-29)

For claim 16, Yamamoto-Nykanen teaches, the method of claim 1 in which the attributes associated with the one or more output devices include information characterizing output services provided by the one or more output devices. (Yamamoto, Co. 12 lines 17-35 and Col. 11 lines 12-29)

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For claim 17, Yamamoto-Nykanen teaches, the method of claim 16 in which the information characterizing the output services includes one or more of a quality of service indicator, an availability of service indicator and a service fee indicator.

(Yamamoto, Co. 12 lines 17-35 and figure 7)

For claim 18, Yamamoto-Nykanen teaches, the method of claim 1 in which the selecting of the one or more output devices includes input from a user. (Yamamoto, Col. 10 lines 31-36)

For claim 19, Yamamoto-Nykanen teaches, the method of claim 1 in which the selecting of the one or more output devices is based at least in part upon a predetermined default criterion that is stored in the mobile information apparatus. (Yamamoto, Col. 10 lines 26-31)

For claim 20, Yamamoto-Nykanen teaches, the method of claim 1 further including receiving at the wireless mobile information apparatus via the communication channel components enabling the data content to be rendered by the selected one or more output devices. (Yamamoto, Col. 11 lines 46-48) and (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio) The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 20.

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For claim 21, Yamamoto-Nykanen teaches, the method of claim 20 in which the components include software code. (Yamamoto, Col. 31 lines 50-65)

For claim 22, Yamamoto-Nykanen teaches, the method of claim 20 in which the components include a software application. (Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 23, Yamamoto-Nykanen teaches, the method of claim 20 in which the components correspond to one or more of a device driver, a printer driver, an output driver, and a user interface. (Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 24, Yamamoto-Nykanen teaches, the method of claim 1 in which the wireless mobile information apparatus includes one of a mobile computing device, a pervasive device, a digital camera, and a personal computer. (Yamamoto, Col. 8 lines 13-27) and (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio) The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 24.

For claim 25, Yamamoto-Nykanen teaches, the method of claim 1 in which the one or more output devices include one or more of a printing device, a display device, and an audio output device. (Yamamoto, Col. 14 lines 8-15)

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For claim 26, Yamamoto-Nykanen teaches, the method of claim 1 further including conforming at the wireless mobile information apparatus the data content to an output data format compatible with the one or more selected output devices before delivering the data content to the one or more selected output devices for rendering. (Yamamoto, Col. 10 lines 12-31) and (Nykanen, Col. 5 lines 53-67, selecting printer, Col. 6 lines 9-50, radio) The same motivation that was utilized in the rejection of claim 1, applies equally as well to claim 26.

For claim 27, Yamamoto-Nykanen teaches, the method of claim 26 in which the conforming of the data content employs the one or more attributes. (Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 28, Yamamoto-Nykanen teaches, the method of claim 26 in which conforming the data content includes at least partial raster image processing of the data content. (Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 29, Yamamoto-Nykanen teaches, the method of claim 1 further including delivering the data content to an output controller before delivering the data content to the selected output device. (Yamamoto, Col. 11 lines 50 to Col. 12 line 35)

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For claim 30, Yamamoto-Nykanen teaches, the method of claim 29 in which the output controller is one of a server, an external controller and a data access point. (Yamamoto, Col. 10 lines 12-25)

For claim 31, Yamamoto-Nykanen teaches, the method of claim 29 further including performing raster image processing on the data content at the one or more selected output devices. (Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 32, Yamamoto-Nykanen teaches, the method of claim 29 further including converting the data content into an output data compatible with the one or more selected output devices. (Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

Claims 33-96 are directed to the same invention as claims 1-32. Therefore, the supporting rationale of the rejection to claims 1-32 applies equally as well to claims 33-96.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached Notice of references cited (if appropriate).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ajay M. Bhatia whose telephone number is (571)-272-3906. Also any interview requests should be faxed directly to the examiner at (571)-273-3906. The examiner can normally be reached on M-F 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571)272-3933. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason D Cardone/
Supervisory Patent Examiner, Art Unit 2145